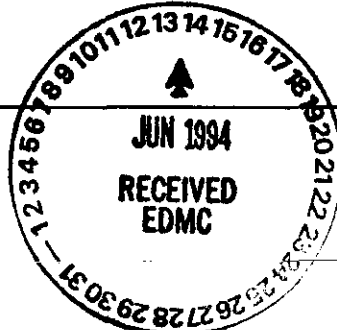


START

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JUN 7 1994
Station #12
ENGINEERING DATA TRANSMITTALPage 1 of 1
1. EDT 605141

2. To: (Receiving Organization) Distribution	3. From: (Originating Organization) WAE Engineering	4. Related EDT No.: NA
5. Proj./Prog./Dept./Div.: ER	6. Cog. Engr.: J.G. Lucas	7. Purchase Order No.: NA
8. Originator Remarks: Release		9. Equip./Component No.: NA
11. Receiver Remarks:		10. System/Bldg./Facility: NA
		12. Major Assm. Dwg. No.: NA
		13. Permit/Permit Application No.: NA
		14. Required Response Date: 5/5/94



15. DATA TRANSMITTED					(F)	(G)	(H)	(I)
(A) Item No.	(B) Document/Drawing No.	(C) Sheet No.	(D) Rev. No.	(E) Title or Description of Data Transmitted	Impact Level	Reason for Trans- mittal	Orig- inator Dispo- sition	Receiv- er Dispo- sition
1	WHC-SD-EN-AP-171		0	Sampling and Analysis Plan for RCRA Closure Activities at 218-E-8 Borrow Pit Demolition Site	ESQ	1/2	1	
2	WHC-SD-EN-AP-172		0	Sampling and Analysis Plan for RCRA Closure Activities at 200 West Ash Pit Demolition Site	ESQ	1/2	1	

16. KEY			
Impact Level (F)	Reason for Transmittal (G)		Disposition (H) & (I)
1, 2, 3, or 4 (see MRP 5.43)	1. Approval 2. Release 3. Information	4. Review 5. Post-Review 6. Dist. (Receipt Acknow. Required)	1. Approved 2. Approved w/comment 3. Disapproved w/comment 4. Reviewed no/comment 5. Reviewed w/comment 6. Receipt acknowledged

(G)	(H)	17. SIGNATURE/DISTRIBUTION (See Impact Level for required signatures)						(G)	(H)
Reason	Disp.	(J) Name	(K) Signature	(L) Date	(M) MSIN	(J) Name	(K) Signature	(L) Date	(M) MSIN
1/2	1	Cog. Eng. J. G. Lucas	<i>[Signature]</i>	5/1/94	H6-04				
1/2	1	Cog. Mgr. R. C. Roos	<i>[Signature]</i>	5/1/94	H6-04				
		QA D.G. Farwick	<i>[Signature]</i>	5/1/94	H4-16				
		Safety							
1/4	1	Env. D.G. Black	<i>[Signature]</i>	6/1/94	H6-30				
3		Central Files (2)			L8-04				
3		EPIC (2)			H6-08				

18. J.G. Lucas <i>[Signature]</i> 5-23-94 Signature of EDT Originator	19. Authorized Representative for Receiving Organization Date	20. R.C. Roos <i>[Signature]</i> 5/1/94 Cognizant/Project Engineer's Manager	21. DOE APPROVAL (if required) Ltr. No. <input type="checkbox"/> Approved <input type="checkbox"/> Approved w/comments <input type="checkbox"/> Disapproved w/comments
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BD-7400-172-2 (07/91) GEF097

BD-7400-172-1 (07/91)

Date Received:
4/27/94

INFORMATION RELEASE REQUEST


Reference:
WHC-CM-3-4

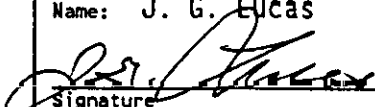
Complete for all Types of Release

Purpose		ID Number (include revision, volume, etc.) WHC-SD-EN-AP-172, Rev. 0	
<input type="checkbox"/> Speech or Presentation	(Check only one suffix)	<input checked="" type="checkbox"/> Reference	List attachments.
<input type="checkbox"/> Full Paper		<input checked="" type="checkbox"/> Technical Report	
<input type="checkbox"/> Summary		<input type="checkbox"/> Thesis or Dissertation	
<input type="checkbox"/> Abstract		<input type="checkbox"/> Manual	
<input type="checkbox"/> Visual Aid		<input type="checkbox"/> Brochure/Flier	
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<input type="checkbox"/> Videotape		<input type="checkbox"/> Other	
Title: Sampling and Analysis Plan for RCRA Closure Activities at 200 West Ash Pit Demolition Site		Unclassified Category UC-	Impact Level ESQ
New or novel (patentable) subject matter? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has disclosure been submitted by WHC or other company? <input type="checkbox"/> No <input type="checkbox"/> Yes Disclosure No(s).		Information received from others in confidence, such as proprietary data, trade secrets, and/or inventions? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)	
Copyrights? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If "Yes", has written permission been granted? <input type="checkbox"/> No <input type="checkbox"/> Yes (Attach Permission)		Trademarks? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Identify)	
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Date(s) of Conference or Meeting	City/State	Will proceedings be published? <input type="checkbox"/> Yes <input type="checkbox"/> No	Will material be handed out? <input type="checkbox"/> Yes <input type="checkbox"/> No
Title of Journal N/A			

CHECKLIST FOR SIGNATORIES			
Review Required per WHC-CM-3-4	Yes	No	Reviewer - Signature Indicates Approval
			Name (printed) Signature Date
Classification/Unclassified Controlled Nuclear Information	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Patent - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BD Williamson 5/3/94
Legal - General Counsel	<input checked="" type="checkbox"/>	<input type="checkbox"/>	BD Williamson 5/3/94
Applied Technology/Export Controlled Information or International Program	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
WHC Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	R. E. Bolls 04/29/94
Communications	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
RL Program/Project	<input checked="" type="checkbox"/>	<input type="checkbox"/>	R. N. Krekel 5-3-94
Publication Services	<input checked="" type="checkbox"/>	<input type="checkbox"/>	L. S. Hermann 4/26/94
Other Program/Project	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Information conforms to all applicable requirements. The above information is certified to be correct.			

Yes No		INFORMATION RELEASE ADMINISTRATION APPROVAL STAMP	
References Available to Intended Audience	<input checked="" type="checkbox"/> <input type="checkbox"/>	Stamp is required before release. Release is contingent upon resolution of mandatory comments.	
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J. G. Lucas	4-26-94		
Intended Audience		Date Cancelled	
<input type="checkbox"/> Internal <input type="checkbox"/> Sponsor <input checked="" type="checkbox"/> External		Date Disapproved	
Responsible Manager (Printed/Signature)	Date		
R. C. Roos	4-27-94		

SUPPORTING DOCUMENT		1. Total Pages 9
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		4. Rev No. 0
5. Key Words soil sampling, chemical analysis		6. Author Name: J. G. Lucas  Signature Organization/Charge Code 8B420/A134M
<p style="text-align: center;">APPROVED FOR PUBLIC RELEASE</p>		
7. Abstract 0141947. Solis Jackson, G. J. and J. G. Lucas, 1994, <i>Sampling and Analysis Plan for RCRA Closure Activities at 200 West Ash Pit Demolition Site</i> , WHC-SD-EN-AP-172, Rev. 0, Westinghouse Hanford Company, Richland, Washington.		
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9. Impact Level ESQ		

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ATTACHMENT:

1	Metric Conversion Chart	Att-1
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FIGURES:

1	200-W Ash Pit Demolition Site	2
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1.0 PURPOSE

The purpose of this document is to provide guidance for sampling and analysis activities associated with the proposed *Resource Conservation and Recovery Act of 1976 (RCRA)* clean closure of the 200 West Ash Pit Demolition Site (Figure 1). This document is a supplement to *200 West Ash Pit Demolition Site Closure Plan* (DOE-RL 1992), and should be used in conjunction with the *Environmental Investigations and Site Characterization Manual* (WHC 1988).

A metric conversion chart (Attachment 1) is provided to the reader as a tool to aid in conversion.

2.0 OBJECTIVE

Ten soil samples will be taken from specific locations (Figure 2) within a 7.5-ft radius centered at the blasting pit. The objective of the work is to facilitate a RCRA clean closure of the site by verifying that the concentrations of all detonation activity contaminants are below action levels. Action levels are defined as levels above the Hanford Site soil background levels identified in *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes* (DOE-RL 1993) and Model Toxic Control Act (MTCA) (WAC 173-340) residential levels. If analysis determines that levels are above both these guidelines, a phase two investigation will be developed. This is not anticipated, however, because of the nature of detonation efficiency and weathering action.

3.0 SITE DESCRIPTION/BACKGROUND

The 200 West Ash Pit Demolition Site is located in a multi-use borrow pit in the eastern portion of the 200 West Area, with approximate dimensions of 600 ft x 800 ft. The borrow pit was used for demolition of discarded explosive chemicals, tumbleweed incineration, and as a source of soil for construction material. The demolition site was located apart from these other activities within the borrow pit. None of these other activities are believed to have contaminated the demolition site.

Demolitions occurred at the 200 West Ash Pit Demolition Site in November 1984 and June 1986. Discarded explosive chemicals were placed in a 6- to 12-in depression dug expressly for demolition purposes. During the June 1986 demolition activity, 2 gal of unleaded gasoline were placed with the standard detonating products. All discarded explosive chemicals were detonated in their original closed containers.

A 20-ft x 20-ft surface area containing the visible depression is roped off and marked as a dangerous waste site. The site also is marked by surveyed monuments.

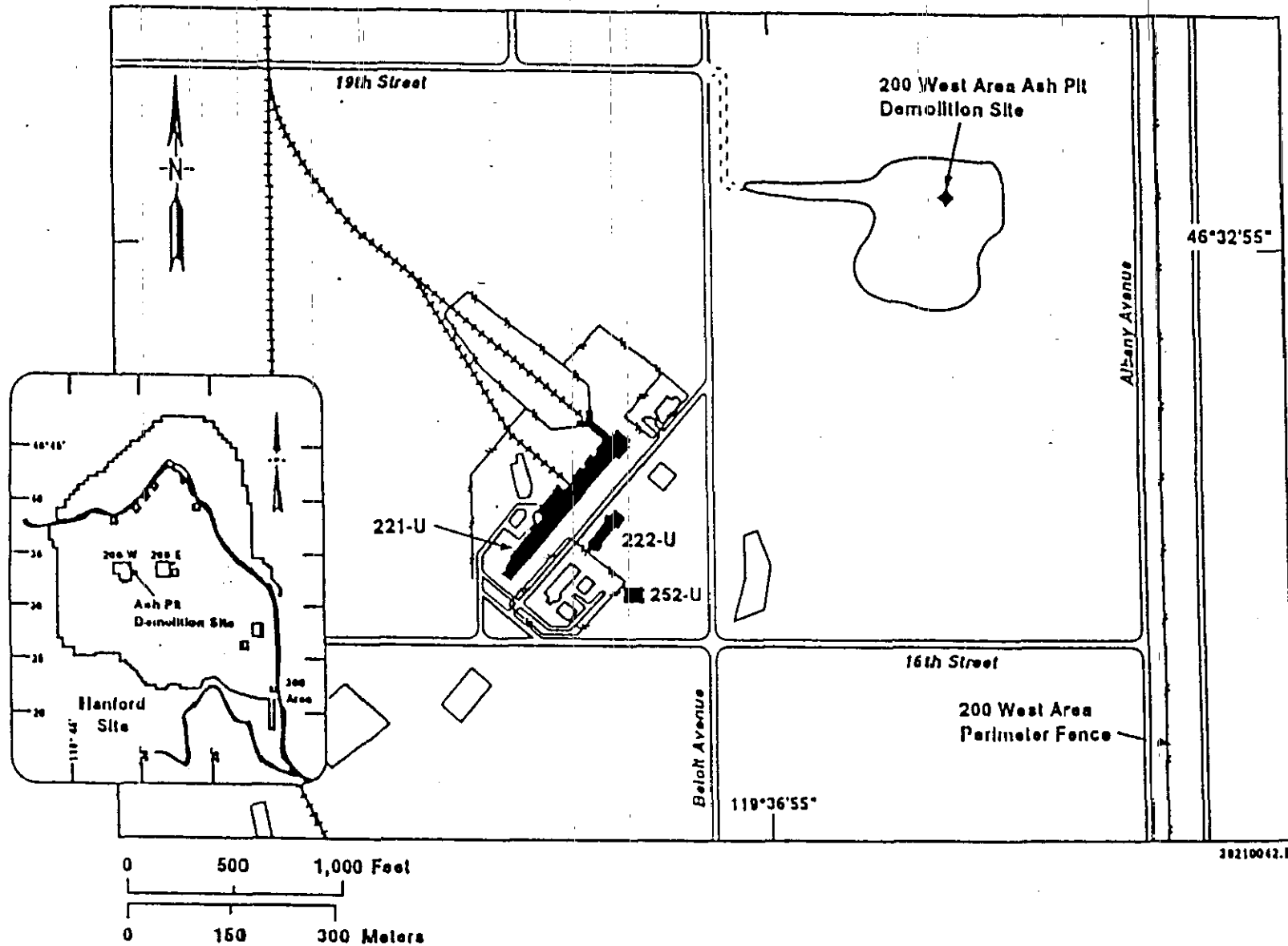
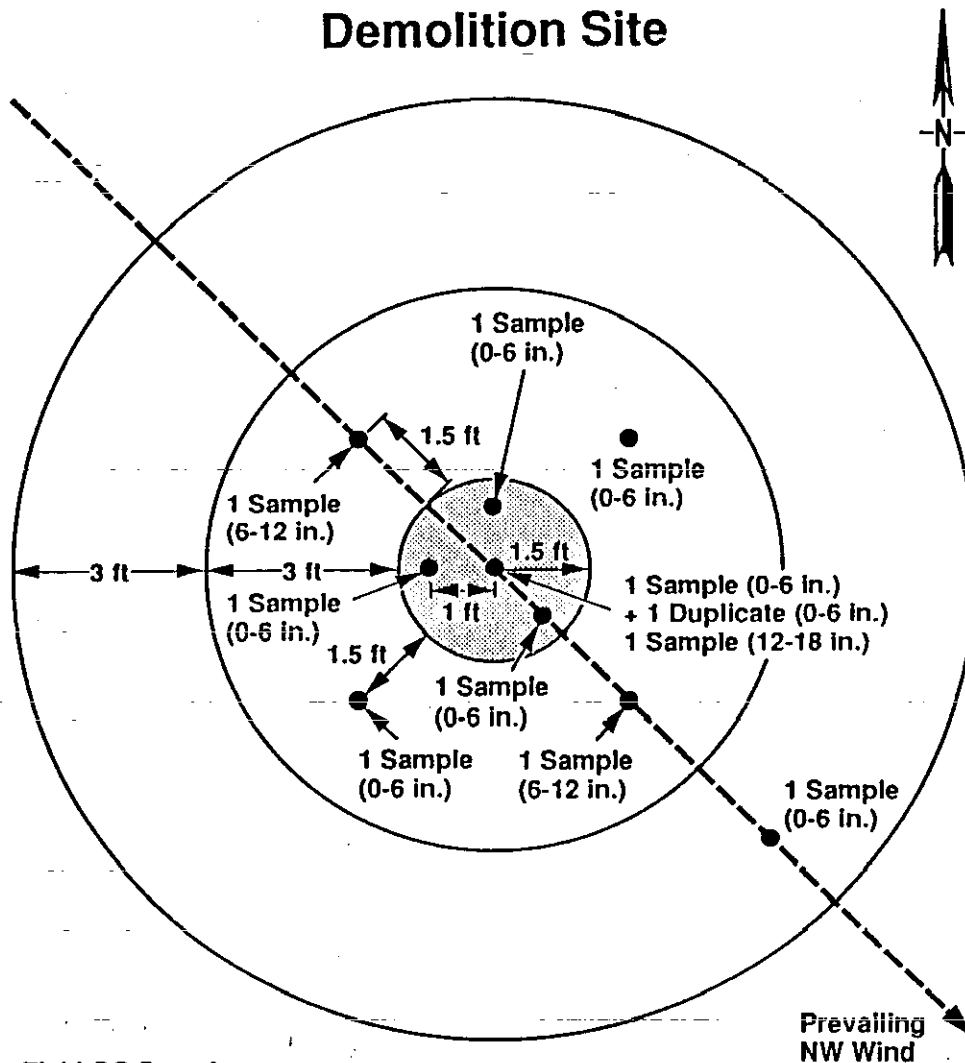


Figure 1. 200-W Ash Pit Demolition Site.

200-West Area Ash Pit Demolition Site



Field QC Samples

- 1 Duplicate (Located at Center 0-6 in.)
- 1 Equipment Blank (Clean Silica Sand)
- 1 Trip Blank (Clean Silica Sand)

1 ft

Environmental Characterization Samples → 10

H9405002.1

Figure 2. Soil Sample Locations/Depth.

4.0 SCOPE OF WORK

Ten soil characterization samples will be taken by hand from locations (Figure 2) at the 200 West Ash Pit Demolition Site.

All sampling activities will be conducted in accordance with the following environmental investigations instructions (EII) procedures (WHC 1988):

- EII 1.1, Hazardous Waste Site Entry Requirements
- EII 1.5, Field Logbooks
- EII 1.13, Environmental Readiness Review
- EII 5.1, Chain of Custody
- EII 5.2, Soil and Sediment Sampling
- EII 5.5, 1706 KE Laboratory Decontamination of RCRA/CERCLA Sampling Equipment
- EII 5.10, Obtaining Sample Identification Numbers and Accessing HEIS Data
- EII 5.11, Sample Packaging and Shipping
- EII 14.1, Analytical Laboratory Data Management.

5.0 SAMPLING AND FIELD ACTIVITIES

This section describes Task 1, Sampling of the 200 West Ash Pit Demolition Site.

5.1 SUBTASK 1A - SAMPLE LOCATION DETERMINATIONS

The blasting pit will be reconstructed by removing wind blown sand to create a 1-ft-deep, 3-ft diameter hole. The pit will be located at the center of the posted dangerous waste site. The ten sampling locations will be appropriately marked (Figure 2) and if necessary, the pit diameter will be enlarged to facilitate sampling. Sample depths within reconstructed crater (Figure 2, shaded area) are based upon reconstructed crater.

5.2 SUBTASK 1B - SAMPLING

Engineering support personnel will use hand tools to obtain soil samples in accordance with information provided in Figure 2. All samples will be packaged, handled, and shipped in accordance with WHC (1988).

6.0 LABORATORY ANALYSIS

Samples collected for chemical analysis will be analyzed utilizing SW-846 methods (EPA 1986) and approved EPA 300 series methods (EPA 1983). The unleaded gasoline discussed in Section 3.0 will be identified as a Tentatively Identified Compound (TIC) by method 8270 (EPA 1986). The contaminants of concern and the methods used for testing are:

- Volatile organic analysis, method 8240
- Semivolatile organic analysis, method 8270
- Detonation residue, method 8330
- Anions, EPA 300.0
- Total nitrogen, EPA 353.1-2
- ICP metals, method 6010.

7.0 REGULATORY AND HANFORD SITE COMPLIANCE

Field quality control (QC) samples will be collected by the sampling scientist and documented in the sampling logbook in accordance with EII 1.5, "Field Logbooks" (WHC 1988). The following is a list of the field QC samples to be collected:

- One duplicate sample at center of pit (0 to 6 in. depth) for full analysis
- One equipment blank (clean silica sand) for full analysis
- One trip blank (clean silica sand) for VOA analysis only.

9.0 REFERENCES

- DOE-RL, 1992, *200 West Ash Pit Demolition Site Closure Plan*, DOE/RL-92-54, U.S. Department of Energy, Richland Operations Office, Richland, Washington.
- DOE-RL, 1993, *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes*, DOE/RL-92-24, Rev. 1, U. S. Department of Energy, Richland Operations Office, Richland, Washington.
- EPA, 1983, *Methods for Chemical Analysis of Water and Waste*, 600/4-79-020, U.S. Environmental Protection Agency, Washington, D.C.
- EPA, 1986, as amended, *Test Methods for Evaluating Solid Waste: Physical/Chemical Methods*, SW-846, 3rd Edition, U.S. Environmental Protection Agency, Washington, D.C.
- WHC, 1988, *Environmental Investigations and Site Characterization Manual*, WHC-CM-7-7, Westinghouse Hanford Company, Richland, Washington.

WAC 173-340, "Model Toxics Control Act--Cleanup," *Washington Administrative Code*, as amended.

9413282.1050

ATTACHMENT 1

METRIC CONVERSION CHART

The following conversion chart is provided to the reader as a tool to aid in conversion.

Into Metric Units			Out of Metric Units		
<i>If You Know</i>	<i>Multiply By</i>	<i>To Get</i>	<i>If You Know</i>	<i>Multiply By</i>	<i>To Get</i>
<u>Length</u>			<u>Length</u>		
inches	25.4	millimeters	millimeters	0.039	inches
inches	2.54	centimeters	centimeters	0.394	inches
feet	0.305	meters	meters	3.281	feet
yards	0.914	meters	meters	1.094	yards
miles	1.609	kilometers	kilometers	0.621	miles
<u>Area</u>			<u>Area</u>		
sq. inches	6.452	sq. centimeters	sq. centimeters	0.155	sq. inches
sq. feet	0.093	sq. meters	sq. meters	10.76	sq. feet
sq. yards	0.836	sq. meters	sq. meters	1.196	sq. yards
sq. miles	2.6	sq. kilometers	sq. kilometers	0.4	sq. miles
acres	0.405	hectares	hectares	2.47	acres
<u>Mass (weight)</u>			<u>Mass (weight)</u>		
ounces	28.35	grams	grams	0.035	ounces
pounds	0.454	kilograms	kilograms	2.205	pounds
short ton	0.907	metric ton	metric ton	1.102	short ton
<u>Volume</u>			<u>Volume</u>		
teaspoons	5	milliliters	milliliters	0.033	fluid ounces
tablespoons	15	milliliters	liters	2.1	pints
fluid ounces	30	milliliters	liters	1.057	quarts
cups	0.24	liters	liters	0.264	gallons
pints	0.47	liters	cubic meters	35.315	cubic feet
quarts	0.95	liters	cubic meters	1.308	cubic yards
gallons	3.8	liters			
cubic feet	0.028	cubic meters			
cubic yards	0.765	cubic meters			
<u>Temperature</u>			<u>Temperature</u>		
Fahrenheit	subtract 32 then multiply by 5/9ths	Celsius	Celsius	multiply by 9/5ths, then add 32	Fahrenheit

CUSTOMER DOCUMENT
RELEASE INFORMATION

DATE: 6-2-94

CUSTOMER NAME: John Lucas

PHONE: 6-2789

PAYROLL NUMBER: 55152

PROJECT / PROJECT NUMBER: WHC-SD-EN-AP-171, Rev. 8

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